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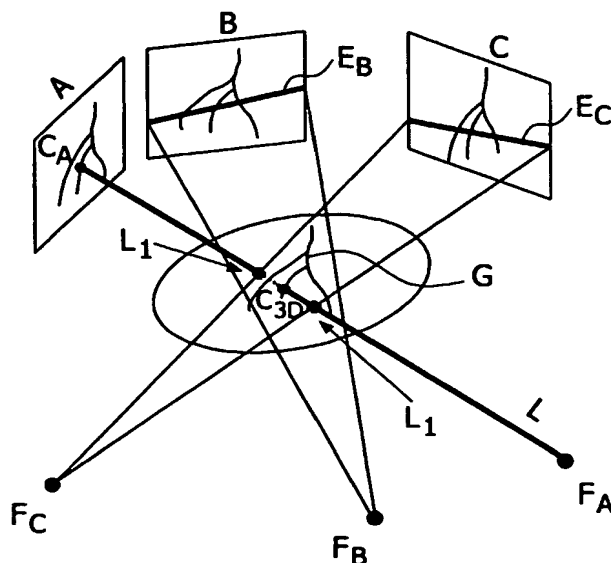
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(54) Title: **DEVICE AND METHOD FOR GENERATING A THREE-DIMENSIONAL VASCULAR MODEL**



(57) Abstract: The invention relates to a method for the reconstruction of a three-dimensional model of a vascular tree from two-dimensional X-ray projection images (A, B, C) that are taken from different spatial directions. On a first projection image (A) at least one reference point (C_A) is specified. The gray-value profiles along the epipolar lines (E_B , E_C) for said reference point (C_A) in other projection images (B, C) are then projected on the projection line (L) of the reference point (C_A) and added there punctiformly to form a sum profile (S). The sum profile (S) has an extreme, for example, a gray-value minimum, at the position of the space point (C_{3D}) belonging to the reference point (C_A). In this way, it is possible to reconstruct semiautomatically a vascular tree from X-ray projections.

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